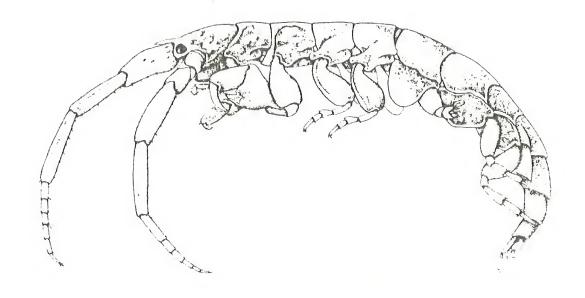
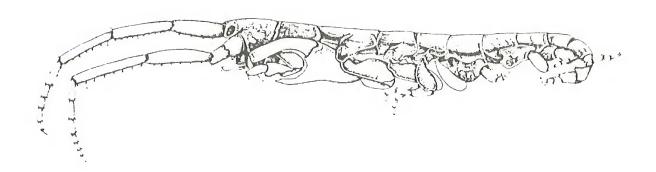
AMPHIPOD NEWSLETTER 16





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February 1986

First, I must apologize for the long time delay between this newsletter and the last. It seems that life here has become more and more busy. I am now the Director of the Darling Center, which is the marine laboratory of the University of Maine. While this position entails much more time than expected, I am still trying to keep up with new developments in amphipod biology and systematics.

The bibliography was graciously put together, as usual, by Wim Vader. Without his devotion to this project, the A.N. would soon cease to exist.

With all the recent additions of funds, the newsletter is in a very good situation financially. I would like to thank all who have sent funds, and especially the regional collectors - editors for having taken the time to canvas the amphipodologists in their areas. Thanks also to those from countries unable to export currency for giving some funds to Jerry Barnard at the Ambleteuse meeting.

Apparently the Ambleteuse meeting went very well, with the major 'higher classification and phylogeny factions' coming to some kind of accord. Our field is much in need of more basic research and it is unfortunate to see factions developing on the basis of incomplete evidence. We will know more about how to arrange amphipods into higher categories after we describe more taxa from the large unknown regions of the world (e.g., South America and the tropics), and after we learn more about the functional significance of different morphological features (e.g., the papers dealing with prehensile pereopods and epimeral plate 3 by Vader and Moore, respectively; perhaps also the paper by Bowman & Wasmer cited in this A.N.).

This issue's cover is from Jim Lowry's recent paper on two new species of <u>Cerapus</u> from Samoa and Fiji. The drawings are of <u>Cerapus</u> oceanicus and <u>C. pacificus</u> drawn by Sharne Dunlop.

Best wishes for 1986.

Walpole, Maine

Les Watling

Notes and News

A letter from R. Tchardaklieva, the librarian of the Bulgaria Research Institute of Fisheries in Varna, contained the sad news of the death of a subscriber and colleague, M-e Kaneva-Abadjieva, last April. The newsletter will continue to be sent to the library of that institute.

Dr. Hiroshi Morino has also noted the passing of Dr. Ishitaro Arimoto, due to age and illness. Dr. Morino writes "his numerous research publications on the taxonomy of the Japanese Caprellidae, culminated in the mongraph Taxonomic Studies of Caprellids Found in the Japanese and Adjacent Waters', 229 pp. (see AN 10) have provided us a very helpful standard to this group of animals".

New subscriber, Exequiel Gonzalez Balbontin, writes: "My work with intertidal gammaridean amphipods goes slowly. I have just sent for revision a paper on <u>Paracorophium</u> and I am writing a revision of some Chilean <u>Hyale</u>. I plan to work in the near future with some samples from the chilean subantarctic islands."

In this newsletter, at the back, you will find a complete list of all subscribers. Addresses for all subscribers are as up-to-date as I have them. All new subscribers are also included. If anyone's address is different from that listed, please let me know. Changes will be very easy to make since we are now, finally, completely computerized. The mailing list can be sorted to print mailing labels, or an address list, or can be sorted by country or state. I have done this so that the post office can more easily handle our mailing, but I thought the readers would like to know where all their colleagues are so I've compiled the following list:

Argentina	1	Japan	25
Australia	10	Kuwait	2
Belgium	1	Lebanon	1
Brazil	5	Monaco	1
Bulgaria	1	Morrocco	1
Canada	21	New Caledonia	1
Chile	2	New Zealand	6
Cuba	1	Norway	6
Czechoslovakia 1		Poland	3
Denmark	3	Portugal	3
East Germany	1	Romania	1
England	17	Scotland Scotland	5
Finland	1	South Korea	1
France	37·	Spain	2
Guadeloupe	1	Sweden	7
Holland	7	Thailand	2
India	6	Turkey	1
Ireland	7	USSR	10
Italy	9	•	

U.S.-East 36
U.S.-South 23
U.S.-West 44
U.S.-Interior 3
Vietnam 1
Wales 3
West Germany 14
Yugoslavia 4

POSITION WANTED: Phil Oshel writes that he is nearing completion of his Ph.D. at Memorial University of Newfoundland and is looking for a position, either at post-doctoral level or entry level faculty. He states: "experienced in SEM operation & x-ray analysis of elements (energy- & wavelength-dispersive), with experience in light & transmission electron microscopy. Interested in comparative/functional morphology and phylogeny of amphipods & malacostracans, and of crustaceans (& invertebrates) in general, especially of feeding and sensory structures."

HELP WANTED: A nematologist, Dr. S. Lorenzen, would like anyone who has noted nematodes living epibiotically on the outside of amphipods to please let him know. He would like very much to obtain a variety of specimens. He can be reached at: Zoologisches Institut, Christian-Albrechts-Universitat zu Kiel, Olshausenstr. 40-60, D-2300 Kiel 1, W. Germany.

I will try to keep up with other news. We need more input from colleagues around the world about work that is happening in their regions. I would especially like to have some detailed news about work in Asia and South America. I will try to have the next A.N. ready to go about late Novemeber.

- ABEL, P.D. 1980. Toxicity of y-hexachlorocyclohexane (Lindane) to Gammarus pulex: mortality in relation to concentration and duration of exposure. Freshw. Biol. 10: 251-259.
- ADAMS, J., P.J. GREENWOOD & J. MALLOY. 1983. Colour variation in <u>Gammarus pulex</u> in relation to sex and the moult cycle. Arch. Hydrobiol. <u>98</u>: 265-271.
- ADRIKOVICS, S., L. FORRO & H. METS. 1982. The occurrence of <u>Synurella</u> <u>ambulans</u> (Muller, 1846) (Crustacea, Amphipoda) in Neusiedlersee. Sitzungsber. osterr. Akad. Wiss. (Abt. 1) <u>191</u>: 139-141.
- AGNEW, D.J. & A.C. TAYLOR. 1985. The effect of oxygen tension on the physiology and distribution of <u>Echinogammarus pirloti</u> (Sexton & Spooner) and <u>E. obtusatus</u> (Dahl) (Crustacea: Amphipoda). J. exp. mar. Biol. Ecol. <u>87</u>: 169-190.
- AHSANULLAH, M. & D.H. PALMER. 1980. Acute toxicity of selenium to three species of marine invertebrates, with notes on a continuous-flow test system. Austr. J. Mar. Freshw. Res. 31: 795-802. (i.a., Allorchestes compressa)
- AHSANULLAH, M. & T.M. FLORENCE. 1984. Toxicity of copper to the marine amphipod <u>Allorchestes compressa</u> in the presence of water- and lipid-soluble ligands. Mar. Biol. <u>84</u>: 41-45.
- ALI, A. & J. LORD. 1980. Impact of experimental insect growth regulators on some non-target aquatic invertebrates. Mosquito News 40: 564-571. (i.a. <u>Hyalella azteca</u>)
- ALLDREDGE, A.L. & J.M. KING. 1985. The distance demersal zooplankton migrate above the benthos: Implications for predation. Mar. Biol. 84: 253-260.
- ALONSO, G. 1982. (<u>Gammaropsis deseadensis</u> sp. nov., a new amphipod from Puerto Deseado (Santa Cruz, Argentina).) Neotropica <u>27</u>: 185-189. (In Spanish, not seen)
- AMBROSE, W.G. 1984. Increased emigration of the amphipod <u>Rhepoxynius</u> abronius (Barnard) and the polychaete <u>Nephtys caeca</u> (Fabricius) in the presence of invertebrate predators. J. exp. mar. Biol. Ecol. <u>80</u>: 67-75.
- ANDRES, H.G. 1979. (<u>Paracorophium hartmannorum</u>, new species from the eulittoral of the Chilean Pacific coast (Crustacea, Amphipoda).) Mitt. Hamb. zool. Mus. Inst. <u>76</u>:381-386. (In German)
- ANDRES, H.G. 1984. Zwei neue Synopiiden (Crustacea: Amphipoda: Gammaridea) aus dem warmen zentralen Nordatlantik. Mitt. Hamb. zool. Mus. Inst. 81: 109-116. [Synopia triangula n. sp. (10cN, 27cW) & Synopia rotunda n. sp. (25oN, 27oW)]
- ANDRES, H.G. 1984. Neue Vertreter der antarktisch verbreiteten Gattung

 <u>Paraceradocus</u> Stebbing, 1899 (Crustacea: Amphipoda: Gammaridae). Mitt.
 hamb. zool. Mus. Inst. <u>81</u>: 85-107. [includes <u>P. trispinosus</u> n.sp.(S.
 Orkney Islands, 244-344 m), <u>P. stenepimerus</u> n.sp. (60051'S, 55033.4'W
 280-294 m), <u>P. gibber</u> n.sp. (63038'S, 56017'W, 0-310 m), and additions
 to the descriptions of <u>P. miersi</u> and <u>P. ramulus</u> along with a key to all
 known species in the genus)
- ANDRES, H.G. & H.-C. JOHN. 1984. Results of some neuston net catches in the warmer Central North Atlantic: Fish larvae and selected invertebrates. Meeres. 30: 144-154. (Not seen)
- Meeres. 30: 144-154. (Not seen)
 ANKAR, S., A.-B. ANDERSIN, J. LASSIG, L. NORLING, & H. SANDLER. 1979.
 Methods for studying benthic macrofauna. An intercalibration between two laboratories in the Baltic Sea. Finn. Mar. Res. (246): 147-160.

BACHELET, G., J.M. BOUCHET & J.P. LISSALDE. 1981. Les peuplements benthiques dans l'estuaire de la Gironde: biomasse, productivite et evolution structurale. Oceanis 6: 593-620. (with data on life history

of i.a. Corophium volutator)

BARNARD, J.L. & C.M. BARNARD. 1981. The amphipod genera Eobrolgus and Eyakia (Crustacea: Phoxocephalidae) in the Pacific Ocean. Proc. biol. Soc. Wash. 94: 295-313. (E. chumashi n.sp. (S. California), other species included in this genus are Paraphoxus spinosus (type) and Parharpinia pontarpioides; Eyakia consists of Paraphoxus robustus (type), Parharpinia calcarata, Parharpinia ochotica (a possible synonym of E. robusta), Paraphoxus subuncigerus and Parharpinia uncigera)

BARNARD, J.L. & J.D. THOMAS. 1983. A new species of Amphilochus from the gorgonian Pterogorgia anceps in the Caribbean Sea. Pp. 179-187, in P. Rabinanath (ed). Selected Papers on Crustacea. Prof. N. Krishna Pillai The Aquarium, Trivandrum 695 007, India. Felicitation Volume. (Amphilochus pillaii n.sp. from Big Pine Key, Florida, USA, also occurs

in Belize.)

BARNARD, J.L. & M.M. DRUMMOND. 1984. Redescription of Notoediceros tasmaniensis Bousfield and a note on the synonymy of Warreyus Barnard & Drummond and Exoediceroides Bousfield (Crustacea: Amphipoda: Exoedicerotidae). Proc. R. Soc. Vict. 96: 25-32. (With a key to the 8 genera of Exoedicerotidae. Notoediceros tasmaniensis has a uniramous ur. 3. Exoediceroides maximus is a junior synonym of Oediceros latrans Haswell, 1879.)

BARNARD, J.L. & M.M. DRUMMOND. 1984. A new paracalliopiid, Katocalliope kutyeri gen. et sp. nov. (Crustacea: Amphipoda) from Queensland. Proc. R. Soc. Vict. 96: 147-153. (includes a key to the genera of the Family

Paracalliopidae)

BARNARD, J.L. & J.D. THOMAS. 1984. Two new species of the Siphonoecetes complex from the Arabian Gulf and Borneo. Proc. biol. Soc. Wash. 97: 864-881. (Siphonoecetes arabicus n. sp. from Dhahran, the Arabian Gulf, and Borneoecetes wongi n. gen. n.sp. from Borneo.)

BARNARD, J.L. & J. CLARK. 1985. A new sea-cave amphipod from Bermuda (Dulichiidae). Proc. biol. Soc. Wash. 98: 1048-1053. (Describes

Podobothrus bermudensis n. sp.).

BARNES, R.S.K., A. WILLIAMS, C. LITTLE, & A.S. DOREY. 1979. An ecological study of the Swanpool, Falmouth. 4. Population fluctuations of some dominant macrofauna. Pp. 177-197, in R.L. Jefferies & A.J. Davy (eds.) Ecological processes in coastal environments. Blackwell Scientific Publishers, Oxford.

BECHLER, D.L. 1985. Structure and foraging behavior in hypogean crustacean assemblages. Hydrobiologia 127: 203-211. (A Missouri study, involving

Gammarus troglophilus and Bactrurus brachycaudus)

BECKLEY, L.E. 1980. Distribution and tidal rhythmicity of a littoral amphipod. S. Afr. J. Zool. 15: 199-200. (Hyale grandicornis)

BECKLEY, L.E. & A. McLACHLAN. 1980. Studies on the littoral seaweed epifauna of St. Croix Island. 2. Composition and summer standing stock. S. Afr. J. Sci. <u>15</u>: 170-176.

BEDFORD, A.P. & P.G. MOORE. 1984. Macrofaunal involvement in the sublittoral decay of kelp debris: The detritivore community and species interactions. Est. coast. Shelf Sci. 18: 98-112. (i.a. Gammarus locusta.)

BELLAN-SANTINI, D. 1983. Donnees preliminaires sur la faune des crustaces amphipodes installee dans des reseaux cavitaires artificiels. Pp. 99-104 in `Journee d'Etudes sur les aspects scientifiques concernant les recifs

artificiels et la mariculture suspendue, Cannes, 7 Dec. 1982. CIESM, Monaco. (Not seen)

BELLAN-SANTINI, D. 1983. Distribution des <u>Ampelisca</u> (Crustacea, Amphipoda) de Mediterranee. Pp. 155-161 in P. Rabindranath (ed.). Selected Papers on Crustacea. Prof. Dr. N. Krishna Pillai Felicitation Volume. The

Aquarium, Trivandrum.

BELLAN-SANTINI, D. 1985. Amphipodes des expeditions antarctiques chiliennes dans les iles Shetland du Sud (1. Les Ampeliscidae). Boll. Mus. Civ. Stor. Nat. Verona 10(1983): 241-262. (Describes and illustrates Ampelisca dallenei n.sp. (64052'S, 62057'W), A. lenoldei n.sp. (62057'S,

60036 W) and Byblis subantarctica.)

BELLAN-SANTINI, D. 1985. Amphipodes profonds de Mediterranee (Campagnes Biomede 1, Polymede I et II). Boll. Mus. Civ. Stor. Nat., Verona 10(1983): 263-313. (Deals with 50 spp. of which the following are described and illustrated: Scopelocheirus polymedus n.sp., Tmetonyx palpiserrata n. sp., Vallettietta punctata n.sp., Pardalisca brachydactyla n.sp., P. mediterranea n.sp., Phippsiella pseudophippsia n.sp. Syrrhoites capricornia n.sp., and S. cornuta n.sp. All new species are from deep water in the western Mediterranean.)

BELLAN-SANTINI, D. & J.C. DAUVIN. 1981. Description d'une nouvelle espece d'Ampelisca des cotes françaises. Crustaceana 40: 242-252. (A. amoricana

n.sp. from the Bay of Morlaix in N. Brittany)

BELLAN-SANTINI, D. & J.C. MARQUES. 1984. Contribution a l'étude des amphipodes des cotes du Portugal. Cienc. Biol. (Portugal). 5: 131-149.

(71 species of amphipods were dealt with).

- BELLAN-SANTINI, D. & J.C. DAUVIN. 1985. Morphologie et microstrucutre d'une formation cuticulaire enigmatique chez une nouvelle <u>Ampelisca</u> (Crustacea Amphipoda). C.r. Acad. Sci. Paris. (<u>Ser. 3.9</u>) 300, 389-393. (The enigmatic structure is found on the dorsal part of the two anterior pleon segments. Its function is not clear. The species, from NW Spain, is new and will be described elsewhere.)
- BENNETT, B., C.L. GRIFFITHS, M.-L. PENRITH. 1983. The diets of littoral fish from the Cape Peninsula. S. Afr. J. Zool. <u>18</u>: 343-352.
- BERENTS, P.B. 1985. <u>Warragaia rintouli</u> n.gen., n.sp. (Amphipoda: Urohaustoriidae) from New South Wales, Australia. Rec. austr. Mus. <u>36</u>: 253-258. (Type locality: Jervis Bay, NSW, where the 1980 Crustacea Conference had its excursion.)
- BERZIN, A.A. & L.P. VLASOVA. 1982. Fauna of the Cetacea Cyamidae (Amphipoda) of the world ocean. Invest. Cetacea 13: 149-164. (with Cyamus antarcticensis Vlasova n.sp. from Orcinus area from North Prydz Bay, Antarctic, and a survey of all known Cyamid species arranged by hosts.)
- BIAS, R. 1981. Kinetik der Cadmium-Akkumulation in euryhalinen Amphipoden des Elbe-Aestuars. Experimente mit <u>Corophium volutator</u> (Pallas) (Amphipoda, Corophiidae). Arch. Hydrobiol., Suppl. <u>61</u>: 84-152.
- BIERNBAUM, C.K. 1981. Seasonal changes in the amphipod fauna of <u>Microciona</u> <u>prolifera</u> (Ellis and Solander) (Porifera: Demospongia) and associated sponges in a shallow salt marsh creek. Estuaries 4: 85-96.

BIRKHEAD, T.R. & K. CLARKSON. 1980. Mate selection and precopulatory guarding in <u>Gammarus pulex</u>. Z. Tierpsychol. <u>52</u>: 365-380.

BLOCK, W., 1984. A comparative study of invertebrate supercooling at Signy Island, maritime Antarctic. Br. antarct. Surv. Bull. (64): 67-76. (With data on Oradarea bidentata, O. ocellata, Bovallia gigantea, Pariphimedia integricauda, Paradexamine fissicauda, and Cheirimedon femoratus.

- BLOKHIN, S.A. & V.A. PAVLYUCHKOV. 1983. Feeding of Gray Whales off Chukotka. Rep. int. Whaling Comm. 33: 549-552. (Mostly Amphipoda, of which 55 spp. are now known to be eaten by these whales.)
- BOGATOV, V.V. 1984. (Importance of bottom dwelling animals in biological production processes in rivers.) Ekologiya (1984-3), 52-60. (In Russian, not seen. Data on i.a. <u>Gammarus</u> <u>lacustris</u>.)
- BOLT, S.R.L. 1985. Urine clearance rates and apparent permeability of Gammarus duebeni exposed to varying conditions. J. exp. Biol. 114: 673-678.
- BOLT, S.R.L., M.E. DAWSON, C.B.E. INMAN, & A.P.M. LOCKWOOD. 1980. Variation of apparent permeability to water and sodium transport in <u>Gammarus</u> <u>duebeni</u> exposed to fluctuating salinities. Comp. Biochem. Physiol. <u>67</u> B: 465-473.
- BOROWSKY, B. 1980. The physiological control of reproduction in <u>Microdeutopus gryllotalpa</u> (Crustacea: Amphipoda). 1. The effects of exogenous ecdysterone on the female molt and behavioral cycles. J. exp. Zool. 213: 399-404.
- BOROWSKY, B. 1983. The existence of a water-borne male attractant secreted by receptive females of the amphipod crustacean <u>Microdeutopus</u> gryllotalpa (Costa). Am. Zool. <u>23</u>: ?. (Abstract only)
- BOROWSKY, B. 1984. The use of the males' gnathopods during precopulation in some gammaridean amphipods. Crustaceana 47: 245-250.
- BOROWSKY, B. 1984. Effect of receptive females' secretions on some male reproductive behaviors in the amphipod crustacean <u>Microdeutopus</u> gryllotalpa. Mar. Biol. 84: 183-187.
- BOROWSKY, R. 1984. Environmental control of amylase phenotype in amphipods of the genus Gammarus. Biol. Bull. 167: 647-657.
- BOROWSKY, R., B. BOROWSKY & H. MILANI. 1983. Amylase in the amphipod Gammarus palustris: a chemosensory hypothesis to account for heterozygote deficiency and differential food choice. Am. Zool. 23: ?. (Abstract only)
- BORTKEVICH, L.V. 1982. (Corophiidae in the benthos of the lower reaches of the Ingulets River.) Gidrobiol. Zh. 18(4): 97-99. (In Russian, not seen)
- 1984. Recent advances in the systematics and biogeography of BOUSFIELD, E.L. landhoppers (Amphipoda: Talitridae) of the Indo-Pacific region. pp. 171-210, in F.J. Radovsky, P.H. Raven and S.H. Sohmer (eds.) Biogeography of the tropical Pacific. Bishop Mus. Spec. Pub. No. 72 (also published by Association of Systematics Collections). (Includes capsule diagnoses of several new taxa: Eorchestia, n. gen. (type: Orchestia rectipalma K.H. Barnard 1940; and includes several undescribed species from New Zealand and southeastern Australia); Microrchestia, n. gen. (type: Parorchestia macrochela Bousfield 1971; and additional undescribed species from intertidal habitats in mangrove swamps from South America, Africa, Madagascar, India, and the Bismarck Archipelago); Chiltonorchestia, n. gen. (type: <u>Parorchestia pusilla</u> Chevreux 1915; also includes <u>P. pusilla</u> (Chevreux), <u>P. sarasini</u> (Chevreux), <u>O. starmuhlneri</u> (Ruffo and Paiotta) and 3 undescribed from New Caledonia freshwaters); Uhlorchestia, n. gen. (type: Orchestia uhleri Shoemaker 1930; and 1 additional species); Chelorchestia, n. gen. (type: Orchestia costaricana Stebbing, 1906; and additional species O. darwinii, O. vaggala (Bowman) and several undescribed species from mangrove swamps of Florida and the Caribbean to Argentina; Tethorchestia, n. gen. (type: T. antillensis, n. sp. from Yucatan, Mexico sand beach); Floresorchestia, n. gen. (type: Orchestia floresiana Weber 1892; with 11 additional species); Protaustrotroides, n. gen. (type: P.

victoriae, n. sp. from Apollo Bay, Victoria, Australia); <u>Hawaiorchestia</u>, n. gen. (type: <u>Orchestia hawaiensis</u> Dana 1853; with at least 2 additional undescribed species from Hawaii); <u>Caribotroides</u>, n. gen. (type: <u>C. jamaicensis</u>, n. sp. from Jamaica at elevation of 1200 m.)

BOWMAN, Th.E. 1984. Stalking the wild crustacean: the significance of sessile and stalked eyes in phylogeny. J. Crust. Biol. 4: 7-11.

- BOWMAN, Th.E., 1985. The correct identity of the pelagic amphipod <u>Primno macropa</u>, with a diagnosis of <u>Primo abyssalis</u> (Hyperiidea: Phrosinidae). Proc. Biol. Soc. Wash. 98: 121-126. (The real. <u>P. macropa</u> is redescribed from S. Pacific material. The N. Pacific form earlier thought to be <u>P. macropa</u> is now called <u>Primno abyssalis</u> Bowman, in Fulton 1968.)
- BOWMAN, Th.E. & F. PHILLIPS. 1984. Bioluminescence in the freshwater amphipod, <u>Hyalella azteca</u>, caused by pathogenic bacteria. Proc. biol. Soc. Wash. <u>97</u>: 526-528.
- BOWMAN, Th.E. & R.A. WASMER. 1984. The deep-sea amphipod <u>Paracyphocaris</u> <u>praedator</u> (Gammaridea: Lysianassidae) associated with the pelagic shrimp <u>Oplophorus</u> <u>novaezeelandica</u> as an egg-mimic. Proc. biol. Soc. Wash. <u>97</u>: 844-848.
- BOWMAN, Th.E., S.P. GARNER, R.R. HESSLER, T.M. ILIFFE, & H.L. SANDERS.

 1985. Mictacea, a new order of Crustacea Peracarida. J. crust. Biol.

 5: 74-78. (A new order erected for <u>Hirsutia bathyalis</u> Sanders, Hessler & Garner, 1985, from the deep tropical Atlantic, and <u>Mictocaris halope</u>
 Bowman & Iliffe, 1985, from a Bermuda sea cave.)
- BRATTON, J.H. 1982. <u>Corophium curvispinum</u> Sars (Crustacea: Amphipoda) recorded in the London area. London Nat. <u>61</u>: 62.
- BRAUER, R.W., R. JORDAN, R.O. ROER, E.E. WILLIAMS, M.Y. BEKMAN, G.I. GOLZII, & V.G. SIDELYOVA. 1984. Pressure effects on thermal preference behaviour in gammarid amphipods from 600-1000 m in Lake Baikal. J. therm. Biol. 9: 205-213.
- BROWN, A.F. & M. DIAMOND. 1984. The consumption of rainbow trout (<u>Salmo gairdnerii</u>) eggs by macroinvertebrates in the field. Freshw. Biol. <u>14</u>: 211-215. (i.a. <u>Gammarus pulex</u>)
- BRUSCA, G.J. 1981. A reexamination of some hyperiid amphipods from Hawaii. Pacif. Sci. 34: 277. (Corrections to his 1973 paper)
- BRYANT, V., D.S. McLUSKY, K. RODDIE, & D.M. NEWBERY. 1984. Effect of temperature and salinity on the toxicity of chromium to three estuarine invertebrates (Corophium volutator, Macoma balthica, Nereis diversicolor). Mar. Ecol. Prog. Ser. 20: 137-149.
- BRYANT, V., D.M. NEWBERY, D.S. McLUSKY, & R. CAMPBELL. 1985. Effect of temperature and salinity on the toxicity of arsenic to three estuarine invertebrates (Corophium volutator, Macoma balthica, Tubifex costatus). Mar. Ecol. Progr. Ser. 24: 129-137.
- BRYANT, V., D.M. NEWBERY, D.S. McLUSKY, & R. CAMPBELL. 1985. Effect of temperature and salinity on the toxicity of nickel and zinc to two estuarine invertebrates (Corophium volutator, Macoma balthica). Mar. Ecol. Progr. Ser. 24: 139-153.
- BRZEZINSKA-BLASZCZYK, E. & K. JAZDZEWSKI. 1980. Reproductive cycles of Gammarus fossarum Koch (Crustacea, Amphipoda) in different thermic conditions. Acta Univ. lodz (2) 33: 129-153.
- BUDNIKOVA, L.L. 1984. (Fauna, ecology and biogeographical structure of amphipods (Amphipoda, Gammaridea) in the coastal zone of the Sikhote-Alin Eiosphere State Nature Reserve.) Pp 69-80 in A.I. Kafanov (ed.).

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sp. <u>Pachychelium oculatum</u>; <u>Pachychelium schellenbergi</u> n.sp. (S. Chilie, = <u>P. antarcticum</u> s. Schellenberg 1931), <u>P. nichollsi</u> n.sp. (Antarctic = <u>P. antarcticum</u> s. Nicholls 1938 and Bellan-Santini 1972), <u>P. antarcticum</u> and <u>P. davidis</u>).

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